

#8

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Lusher et al.

Examiner: Vu, V.

Serial No.: 09/607,534

Art Unit: 2154

Filed: June 29, 2000

For: DYNAMIC CONTENT
MANAGEMENT FOR WIRELESS
COMMUNICATION SYSTEMS

RECEIVED

FEB 12 2004

Technology Center 2100

DECLARATION OF PRIOR INVENTION IN THE UNITED
STATES TO OVERCOME CITED PATENT (37 C.F.R. § 1.131)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

My name is William G. Becker. The above-identified Patent Application has been assigned to 3Com Corporation at 5400 Bayfront Plaza, PO Box 58145, Santa Clara, CA, 95052-8145. The Assignee certifies to the best of Assignee's knowledge and belief that Assignee has right, title, and interest in and to the above referenced patent application, and represents that the undersigned is authorized to sign on behalf of the above-referenced Assignee.

3COM-2950.TDC.US.P/JPM/AMT/LCH 1
Examiner: Vu, V.

Serial No.: 09/607,534
Group Art Unit: 2154

The declaration made hereof is to establish a date of the invention in this Application in the United States, at a date prior to March 31, 2000, that is the filing date of US Patent No. 6,336,137 B1, "Web Client-Server System and Method for Incompatible Page Markup and Presentation Languages," by Lee et al. which was recently cited by the US Patent Examiner in prosecution of the present Application.

Below stated are the activities regarding the date on which the invention in the present Application was conceived.

Conception Date

The present invention was conceived at least as early as March 4, 1999. A copy of a cover sheet on the 3Com Invention Disclosure Form for the present Application is presented in Exhibit A. The 3Com Invention Disclosure Form of Exhibit A is directed to the "Dynamic Content Management for Wireless ECommerce" of the present Application.

In addition, a partial copy of page 2 of the 3Com Invention Disclosure Form of Exhibit A is presented in Exhibit B, and illustrates the date of conception of the present invention as early as March 4, 1999.

3COM-2950.TDC.US.P/JPW/AMT/LCH 2
Examiner: Vu, V.

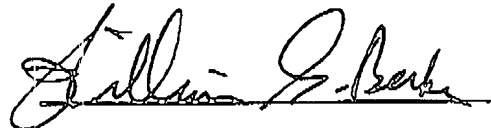
Serial No.: 09/607,534
Group Art Unit: 2154

Diligence

Applicants were diligent, from the time of conception up to the filing date of the present Application.

Declaration

I, William G. Becker, hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application of any patent issued thereon.

Dated: 2/9/04

Signature

William G. Becker
Associate General Counsel - IP
3Com Corporation
5400 Bayfront Plaza
PO Box 58145
Santa Clara, CA 95052-8145

3COM-2950.TDC.US.P/JPW/AMT/ICH 3
Examiner: Vu, V.

Serial No.: 09/607,534
Group Art Unit: 2154

Exhibit A

COPY OF 3COM INFORMATION DISCLOSURE FORM COVER PAGE

3COM-2950.TDC.US.F/JPW/AMT/ICM
Examiner: Vu, V.

Serial No.: 09/607,534
Group Art Unit: 2154

INVENTION DISCLOSURE FORM
3COM CONFIDENTIAL

IDF DOCKET NUMBER: 2950.TDC

This is an Invention Disclosure Form for 3Com Corp. and all of its affiliated companies, hereafter referred to as "COMPANY."

Instructions:

- Complete all sections. Attach supplemental pages and other materials.
- Supply enough information to provide an understanding of your invention.
- Any questions regarding this form should be referred to Bill Becker (408-326-5485), Joann McCrea (408-326-2926) or Patti Contreras (847 282-3302) by phone or by e-mail.
- Return Completed Form To: Legal Department - M.S. 1309
5400 Bayfront Plaza
Santa Clara, California 95052-8145

Date Stamp:

COPY

Dynamic Content Management for Wireless ECommerce

2. Inventors	
Include the name of all persons who made a contribution to the conception of the invention. If there are more than five inventors, use a Supplemental Sheet.	
Full Name:	Elaine Lusher
Home Address:	456 Montori Court, Pleasanton, CA 94566
Home Phone:	925-485-1788
Employee No.	03795
Supervisor:	Paul Sherer
Citizenship:	U.S.A.
Full Name:	Wenjun Luo
Home Address:	21970 Oaknoll Court, Cupertino, CA 95014
Home Phone:	408-725-8951
Employee No.	06618
Supervisor:	Greg Arnold
Citizenship:	China
Full Name:	Scott Lincke
Home Address:	667 Cordilleras Ave., San Carlos, CA 94070
Home Phone:	650-631-8191
Employee No.	20861
Supervisor:	Byron Connell
Citizenship:	U.S.A.
Full Name:	
Home Address:	
Home Phone:	
Employee No.	
Supervisor:	
Citizenship:	
Full Name:	
Home Address:	
Home Phone:	
Employee No.	
Supervisor:	
Citizenship:	

Check here and attach supplemental sheet if more than 5 inventors ☐

Inventors' Initials: _____



Page 1 of _____
IDF 7/1/99

Exhibit B

COPY OF PAGE 2

OF THE

3COM INFORMATION DISCLOSURE FORM

ILLUSTRATING THE DATE OF CONCEPTION AS EARLY AS

MARCH 4, 1999

3COM-2950.TDC.US.P/JPW/AMT/ICH
Examiner: Vu, V.

Serial No.: 09/607.534
Group Art Unit: 2154

INVENTION DISCLOSURE FORM
3COM CONFIDENTIAL

IDF DOCKET NUMBER: _____

3.1. Conception of the Invention

Date of conception: 3/4/99 Location of conception: Santa Clara, CA

Date of first written description: 3/4/99

Location of such first description Santa Clara, CA Page(s): 13

Please attach copies of all pertinent lab notebooks or equivalent. They should be signed, dated and witnessed by two other people who have read and understood the description of the invention.

Inventors' Initials: _____

Page 2 of _____
IDF 2/1/99

Exhibit C

COPY OF PAGE 9

FROM THE

3COM INFORMATION DISCLOSURE FORM

SHOWING REDUCTION TO PRACTICE

3COM-2950.TDC.US.P/JPW/AMT/LCH
Examiner: Vu, V.

Serial No.: 09/607,534
Group Art Unit: 2154

ECommerce Applications on Mobile Devices

The current generation of mobile devices which access the Internet are used primarily for information retrieval, commonly known as web surfing. Information retrieval allows a user to locate and display information. However, users will want the ability to perform a host of web-based transactions in addition to information retrieval. One critical application will be ECommerce, which gives the user the ability to buy and sell items. This application is available to end users of devices such as PCs, but has either not been deployed on mobile devices or has been deployed in limited fashion using proprietary techniques and specialized content. Our approach uses existing web pages as a content source.

We first describe ECommerce requirements on mobile devices. Next, we discuss methods to facilitate ECommerce on a mobile device based on these requirements. We describe techniques for content management of web pages over wireless networks. In particular, we address the dynamic content management of existing web pages. The goal is to specify generic methods that do not require the creation of specialized web content. Applications include ECommerce transactions such as stock trading, flight reservations, and bill paying, plus applications that browse a variety of web content containing both text and images, such as catalog purchases.

ECommerce Requirements

There are a host of features that will be required to achieve a satisfactory user experience such that ECommerce on a mobile device will be a compelling application. One of the key features is the requirement for content management, which has several different aspects:

- **Content Reduction:** Content reduction serves two main purposes: it conserves wireless bandwidth and provides only essential information for display on the small screens of mobile devices. The second objective is more important because ECommerce web sites have a wide variety of information such as advertisements, images, and detailed product information, some of which is not relevant to the ECommerce transaction. When viewing this information on a PC, a large screen allows users to quickly scan the full page and choose to focus on only the relevant portion. On small screens, it is impossible to display the full page in order to allow the user to scan all content. Thus, scanning and downscaling must be done automatically on behalf of the user by preprocessing pages.
- **Content Reformatting:** Even after content reduction, ECommerce web page content needs to be reformatted for a mobile device in a manner analogous to the text-based screen formatting currently done for information retrieval. For example, a large table listing product name, feature, price, and availability must be presented in an acceptable format to mobile users.
- **Response Time:** Particularly for time-sensitive ECommerce applications (such as stock trading), effective response time will be an important factor in the usability of a mobile device for ECommerce. We define overall transaction response time to include web page preprocessing

3Com (Confidential)